

AL Neutral Screened Cables single core

AL NSCRN XL 1X 70^A BK 3.2

Contact

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Nexans ref.: BDGH20PX001CXR

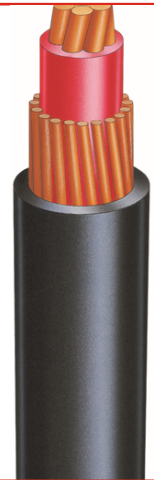
Country ref.: 9123

Al conductors, XLPE insulation, Laid up, Cu neutral screen, Black PVC sheath. 0.6/1 kV. Made to AS/NZS 4961.

DESCRIPTION

Application

- Industrial, commercial and domestic applications.
- For use in various situations to supply the main power from the point of supply to buildings, equipment shed, e.g. switch board to main control cabinet, main between floors and buildings, cable cabinet to motor, etc.



STANDARDS

National AS/NZS 4961



Rated Voltage U_o/U (U_m)
0.6/ 1 (1.2) kV



Cable flexibility
Rigid



Max. conductor temp. in service
90 °C

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CHARACTERISTICS

Construction characteristics

Pilot wires	None
Type of conductor	Circular compacted
Sheath colour	Black
Conductor material	Aluminum
Insulation	XLPE
Screen	Copper wire
Outer sheath	PVC
With Green/Yellow core	No
Core identification	Red
With smaller neutral conductor	No

Dimensional characteristics

Conductor cross-section	70 mm ²
Nominal overall diameter	21.5 mm
Approximate weight	0.89 kg/m
Number of cores	1

Electrical characteristics

Max. DC resistance of the conductor at 20°C (Ohm/km)	0.443
Rated Voltage U ₀ /U (Um)	0.6/ 1 (1.2) kV

Mechanical characteristics

Cable flexibility	Rigid
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Usage characteristics

Max. conductor temperature in service	90 °C
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CORE COLOURS

No. of Cores	Colour
3	RD, WH, BU
3 Plus Pilot	RD, WH, BU, OG
4	RD, WH, BU, BK

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

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

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CURRENT CARRYING CAPACITIES(IN AMPS) - SINGLE CORE AL NEUTRAL SCREEN SINGLE PHASE

Aluminium conductor Circular compacted Insulation XLPE Max. Conductor Temperature 90C

Conductor cross-section [mm ²]					
	AI	AI	AI	AI	AI
70	229	213	171	249	189
95	283	263	213	299	231
120	329	307	244	341	264
185	436	406	322	433	345

 Air Spaced from Surface, Unenclosed	 Air touching, unenclosed	 Air enclosed
 Buried direct	 Buried in single-way duct	

Note

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The values in this table are for typical New Zealand installation conditions of:

- Ambient Air Temperature 30°C
- Soil Temperature 15°C
- Soil Thermal Resistivity: 1.2 K.m/W
- Depth of Burial: 0.5 m